

## **Stereochemistry of seven-membered heterocycles. Communication 17. PMR spectra and conformation of 2-methyl-2-phenyl-1, 3-dioxo-5,6-benzocycloheptene and its isomeric 4-methyl derivatives**

Arbuzov B., Klimovitskii E., Sergeeva G., Strel'nik D., Enikeev K., Il'yasov A.  
*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

---

### **Abstract**

1. 2-Methyl-2-phenyl-1,3-dioxo-5,6-benzocycloheptene and its isomeric 4-methyl-substituted derivatives exist in the twist conformation. 2. In the PMR of these compounds the benzyl protons and 4-methyl groups are coupled and the screening influence of the 2-phenyl substituent on the gauche-oriented methylene protons was revealed. © 1986 Plenum Publishing Corporation.

<http://dx.doi.org/10.1007/BF00955360>

---